

FIGURE 1A.

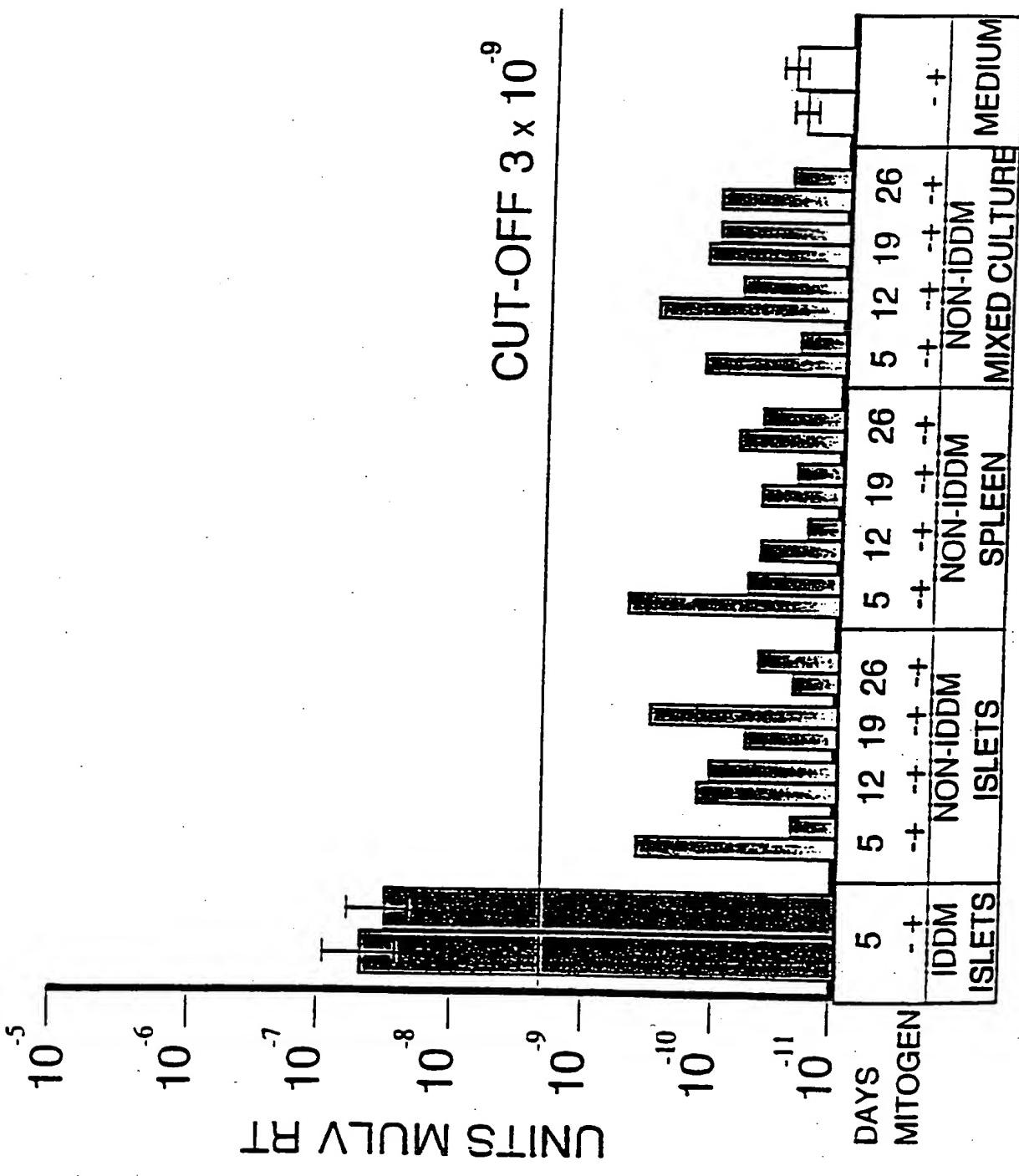


FIGURE 1B.

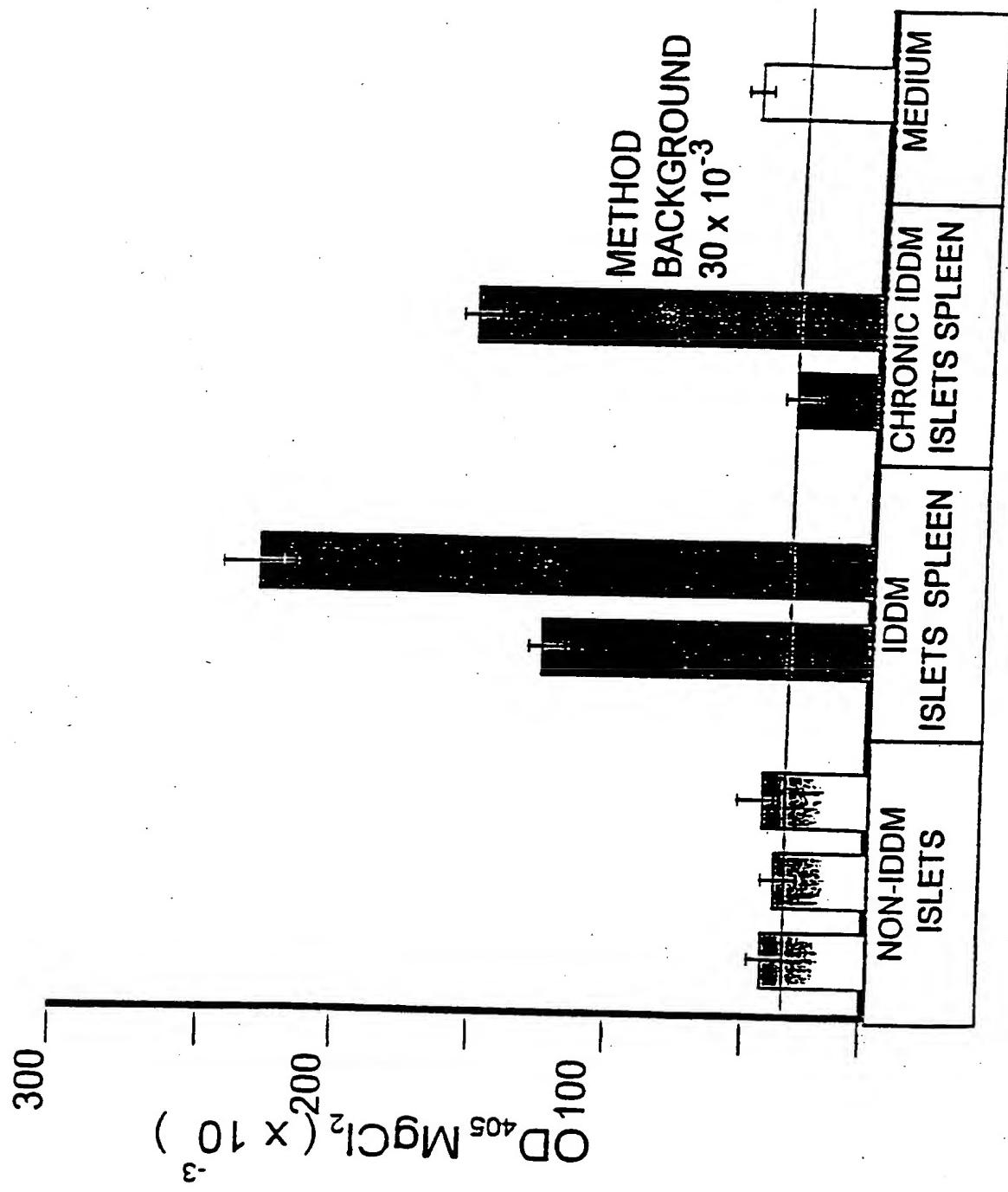


FIGURE 2A.

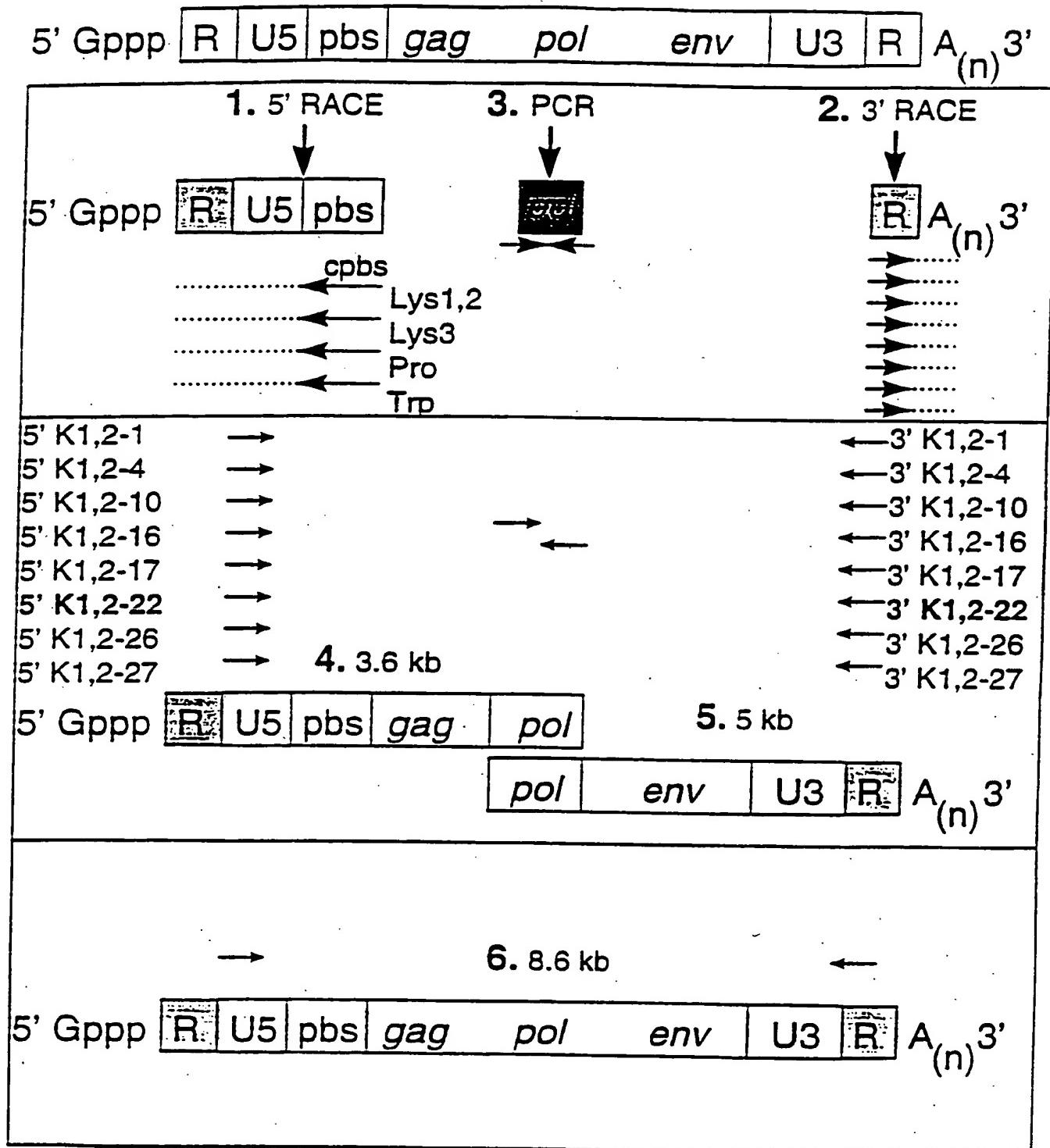


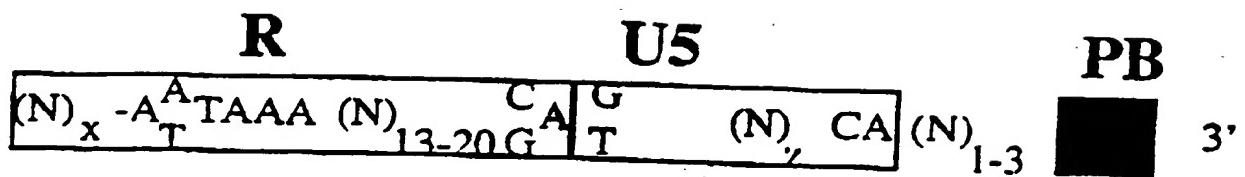
FIGURE 2B

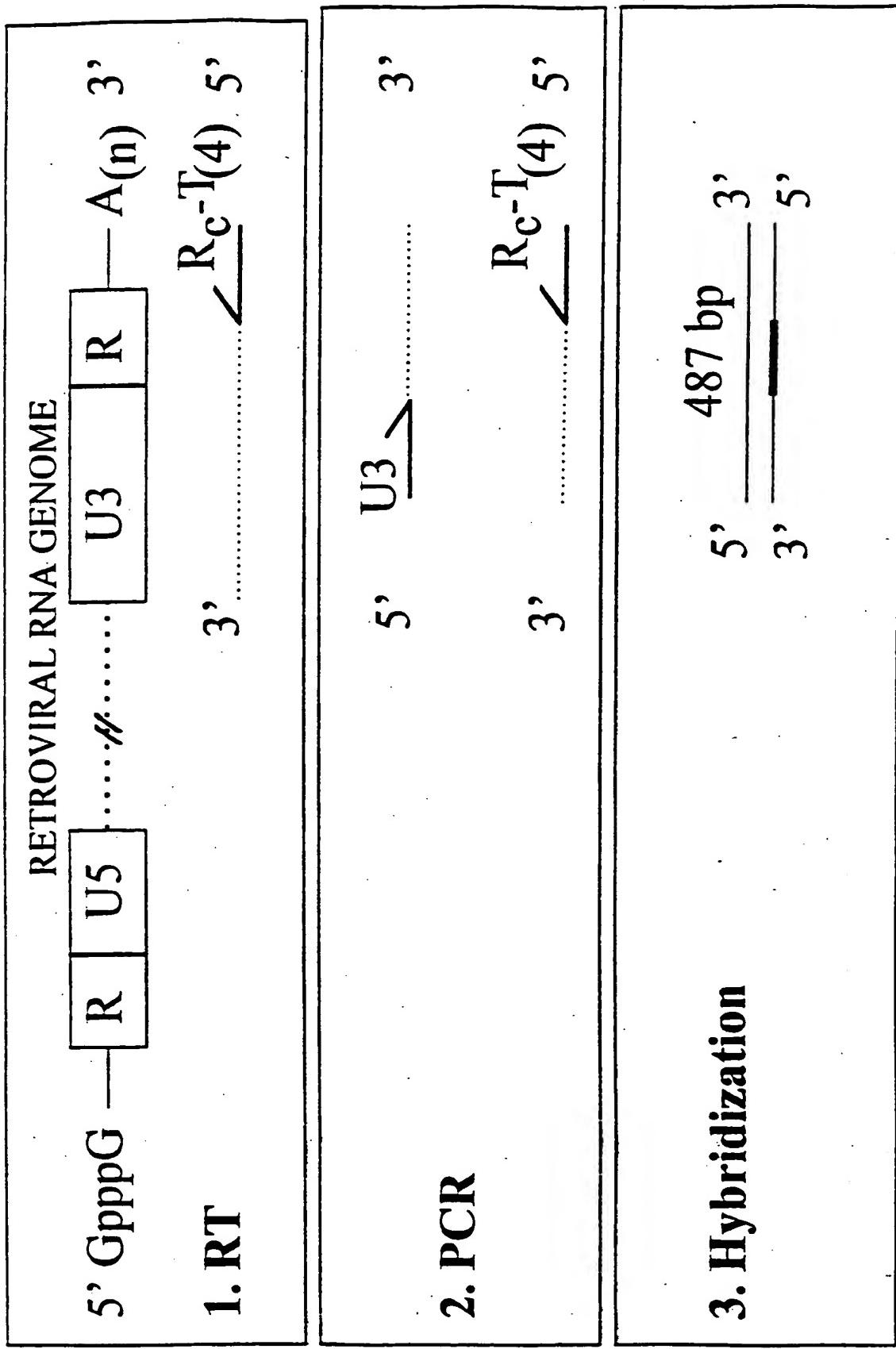
FIGURE 2c

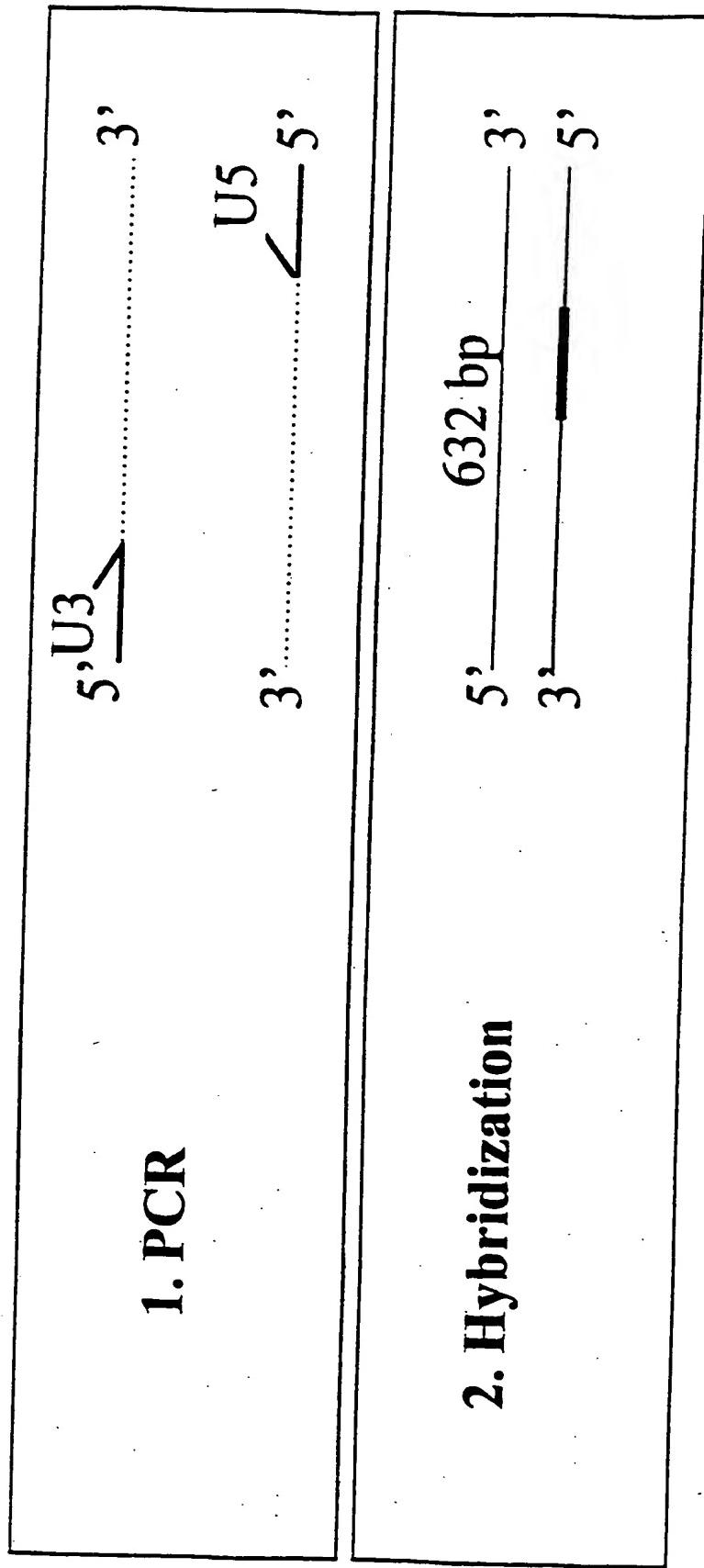
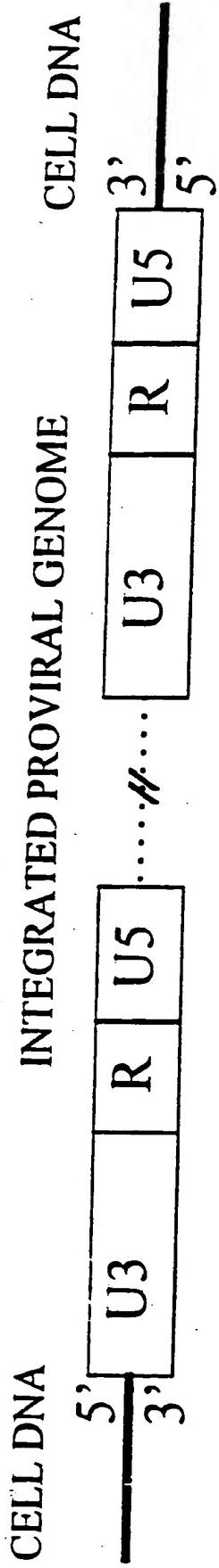
FIGURE 2D

FIGURE 2E

RETROVIRAL RNA GENOME

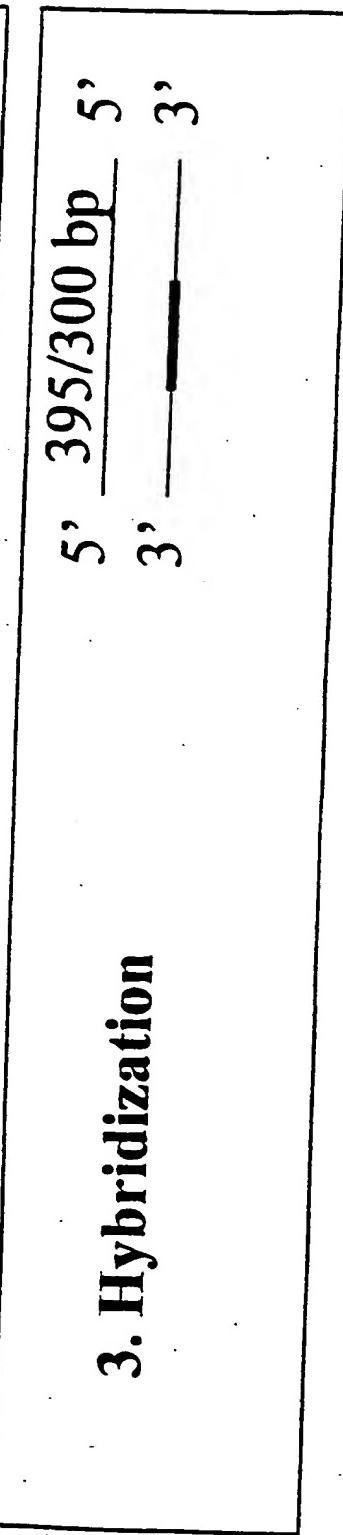
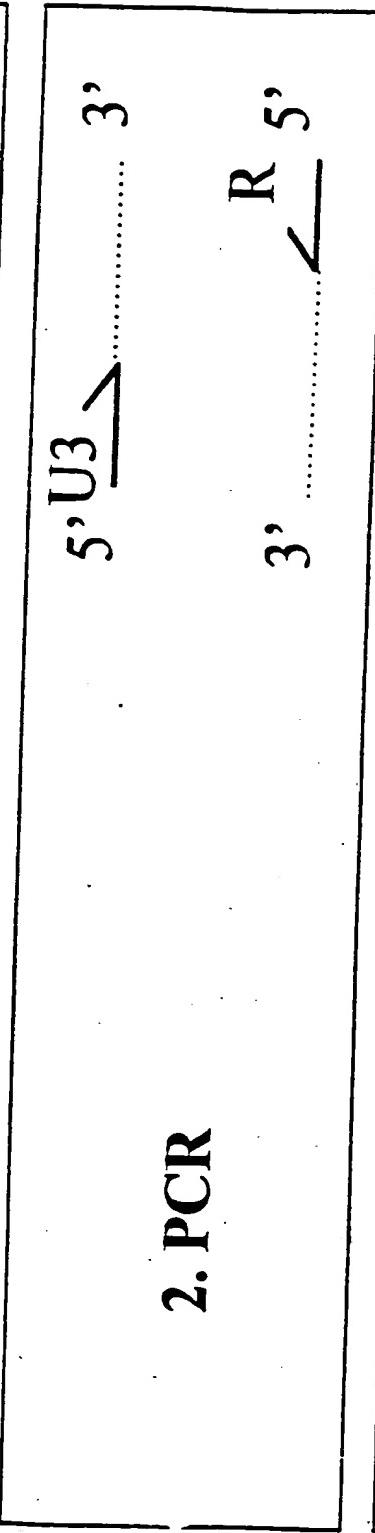
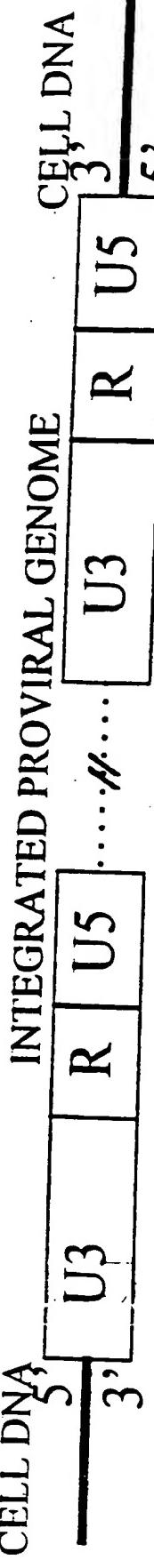
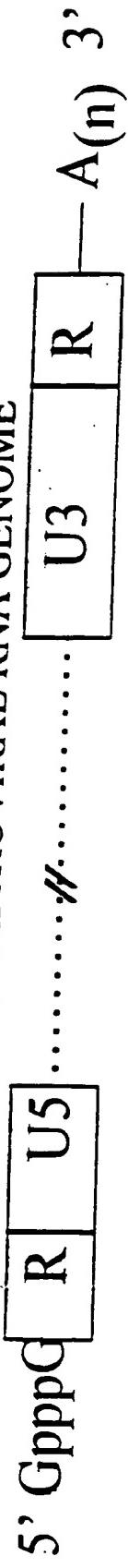


FIGURE 2F

		IDDM PATIENTS (n=10)		CONTROLS (n=10)	
		SPECIFICITY			
RNA	RT+	U3-R			
	RT+	U3-R-POLY(A)			
	RT-	U3-R			
	RT-	U3-R-POLY(A)			
DNA		U3-R			

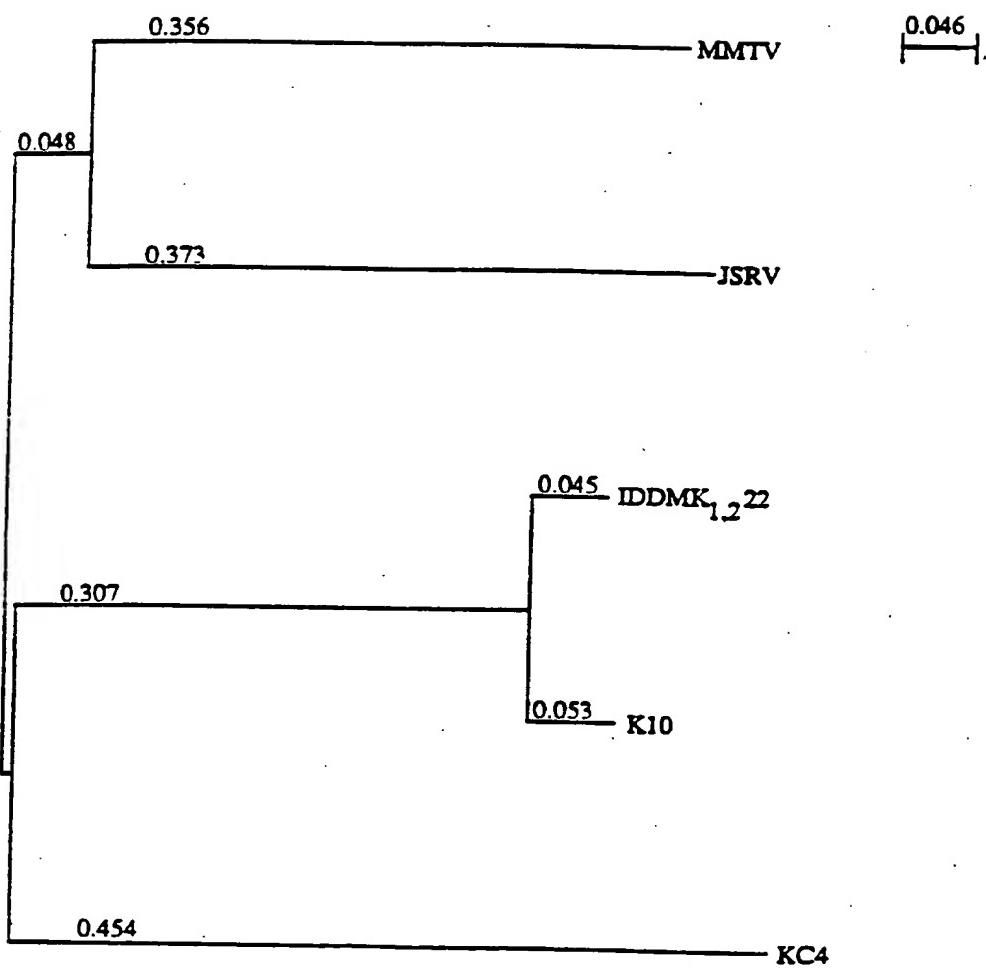
FIGURE 3A.

FIGURE 3B.

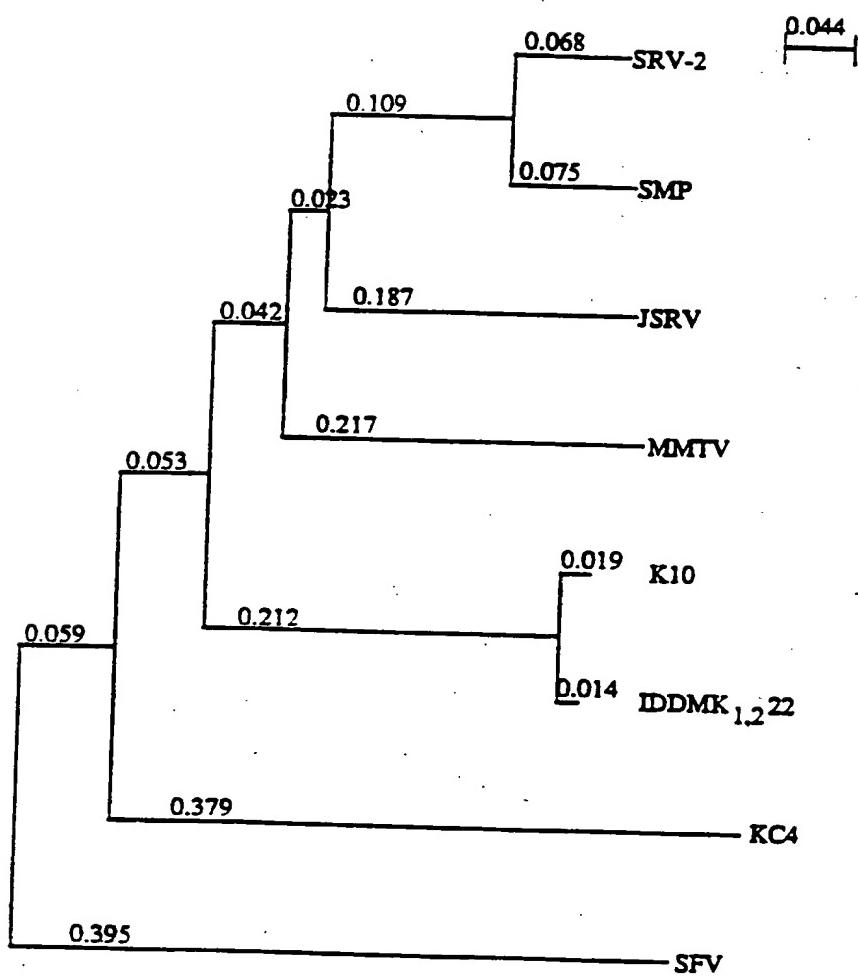


FIGURE 3C.

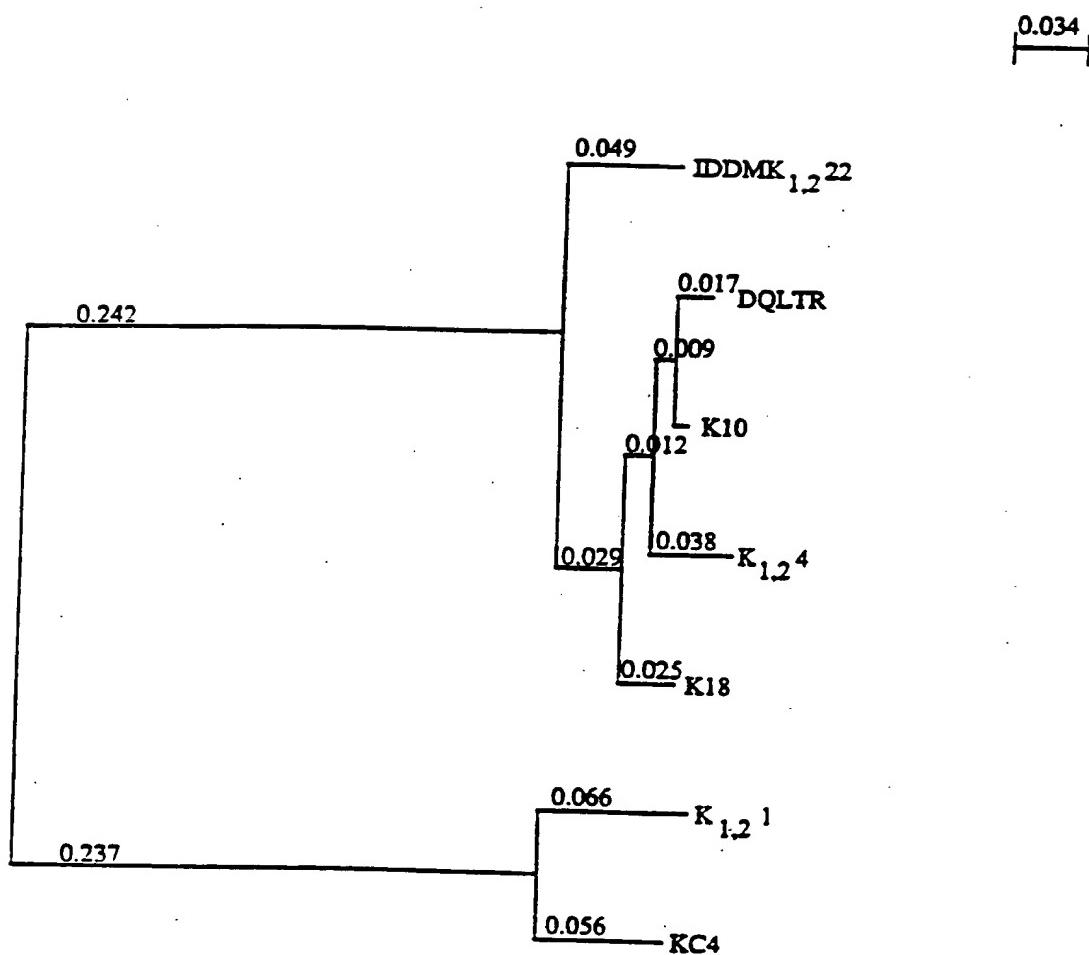


FIGURE 4A.

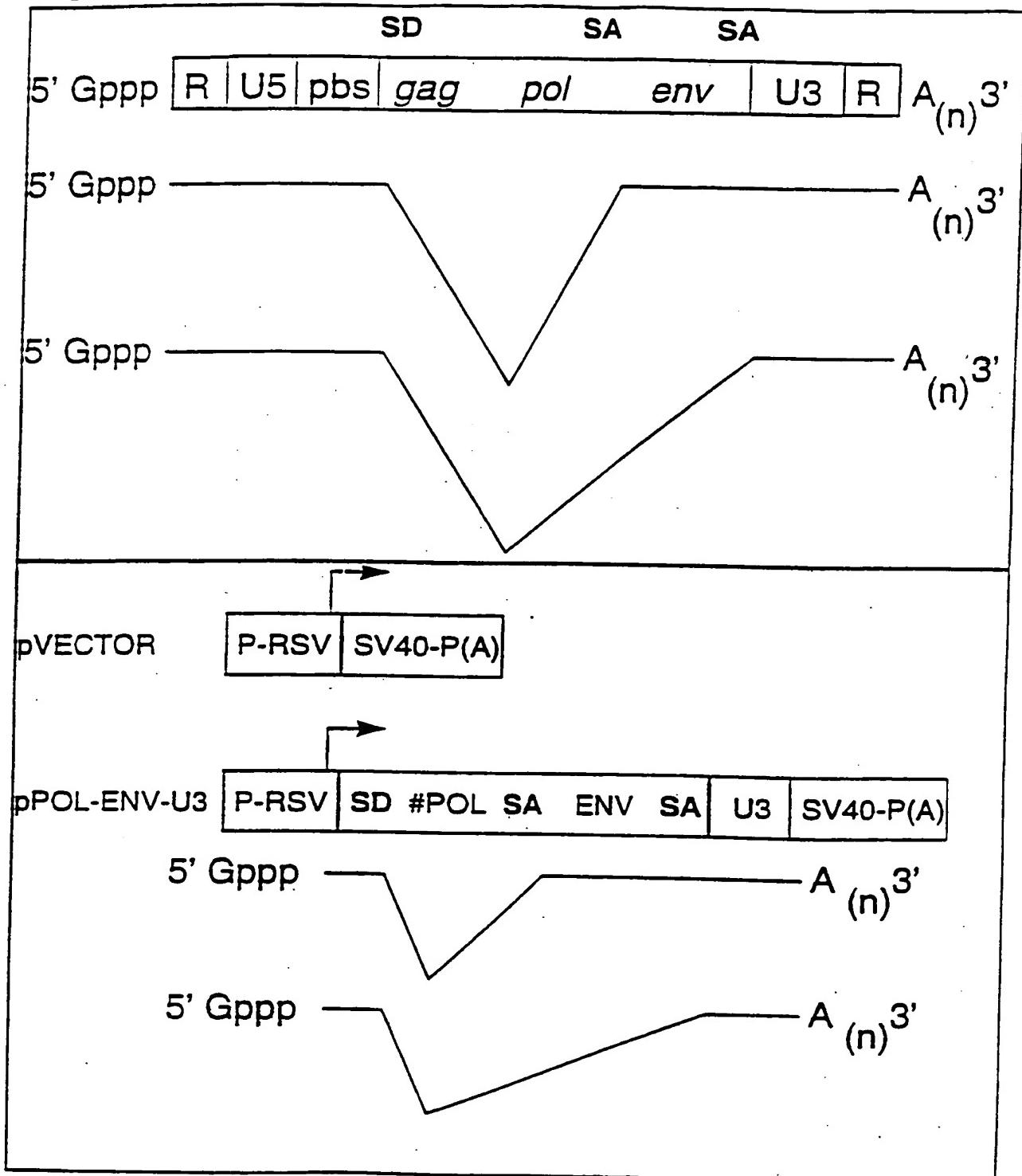


FIGURE 4B.

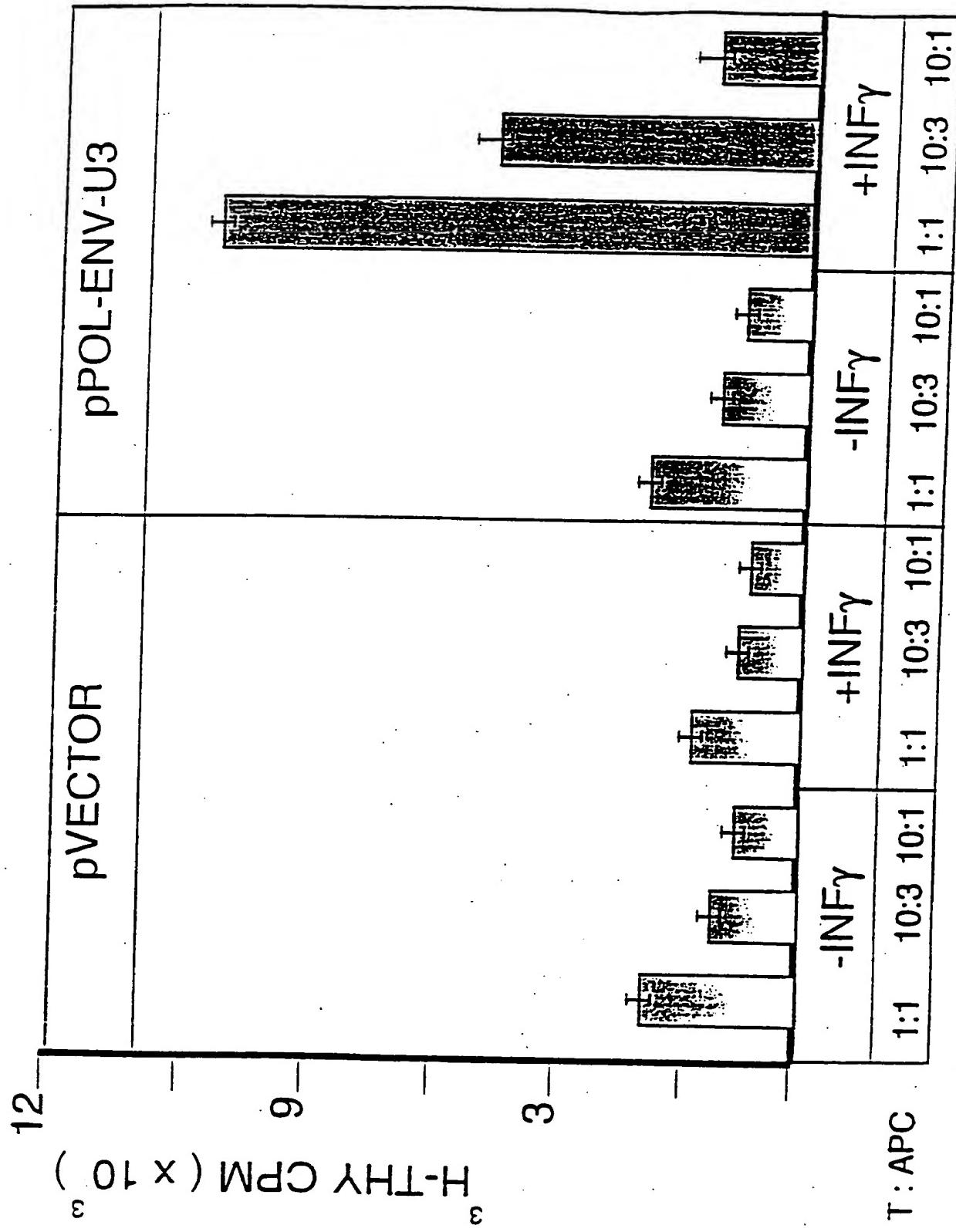


FIGURE 4C.

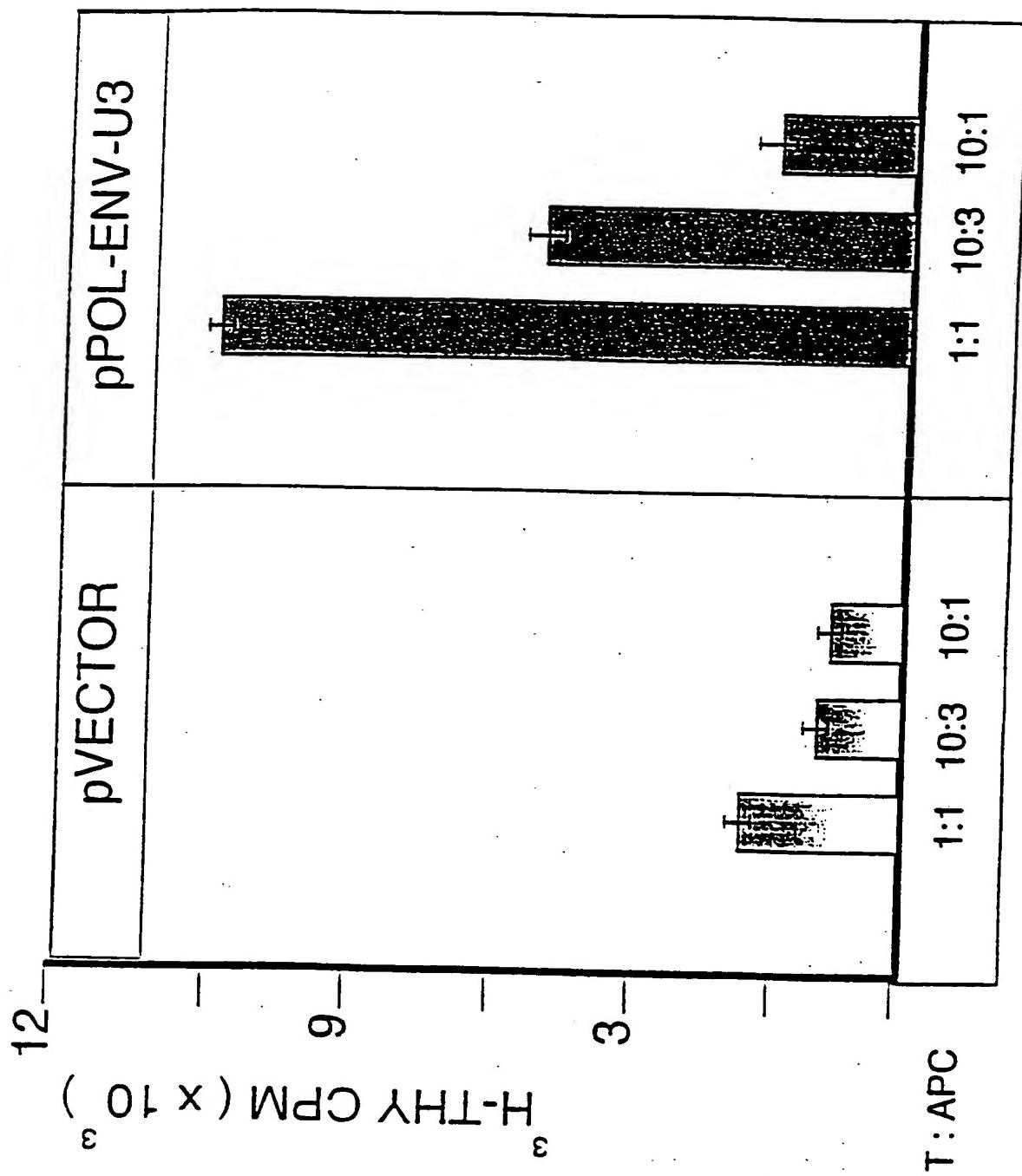


FIGURE 4D.

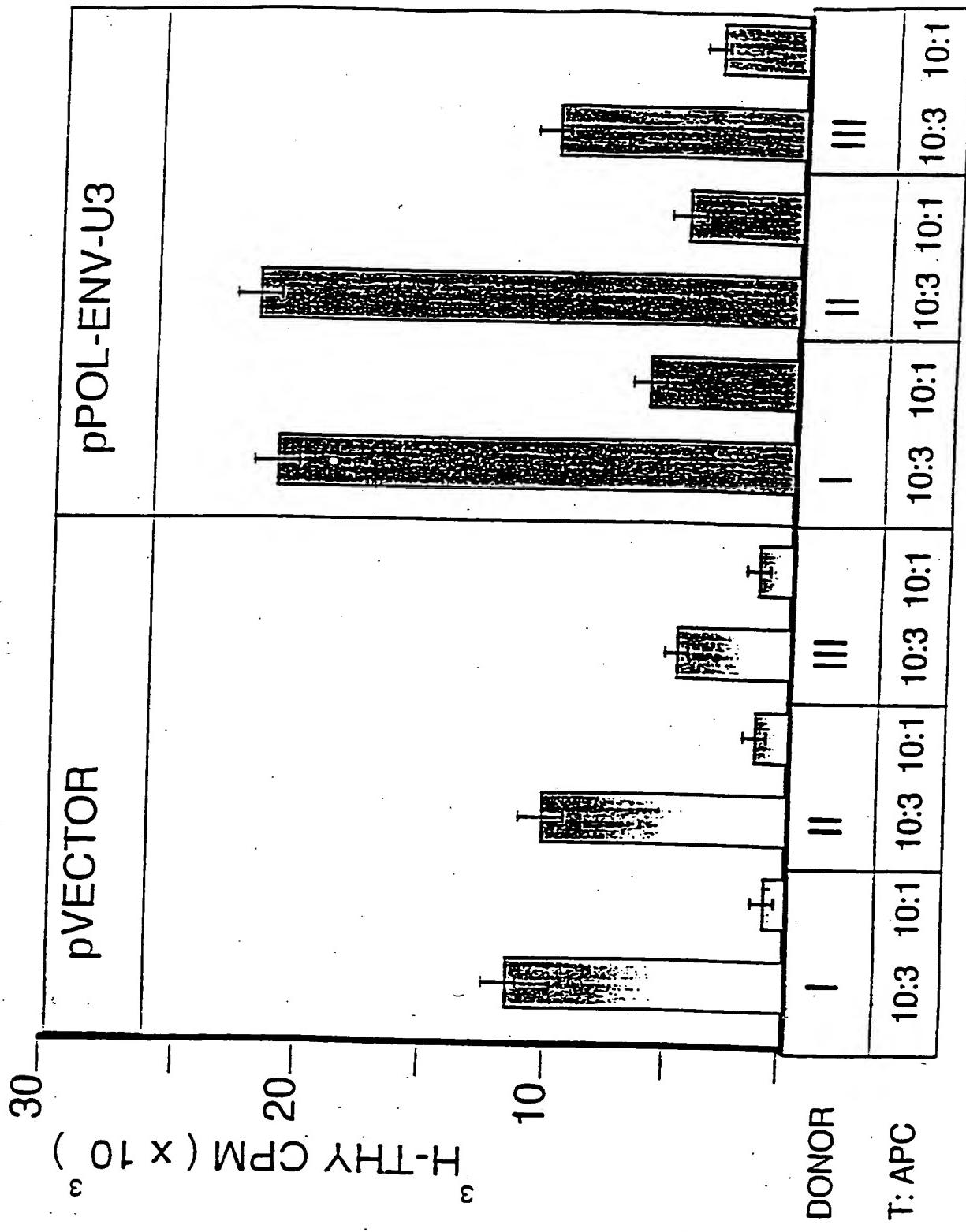
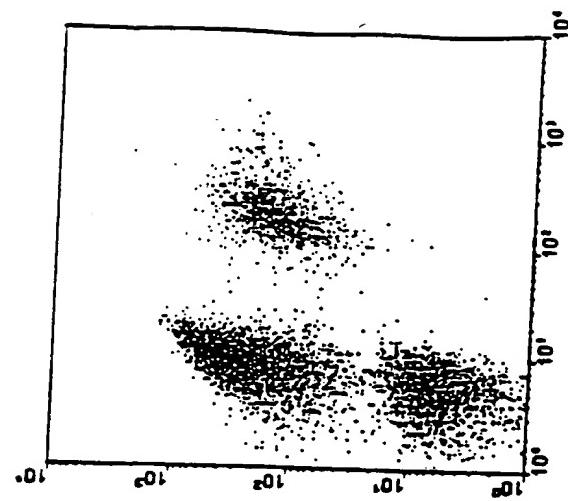
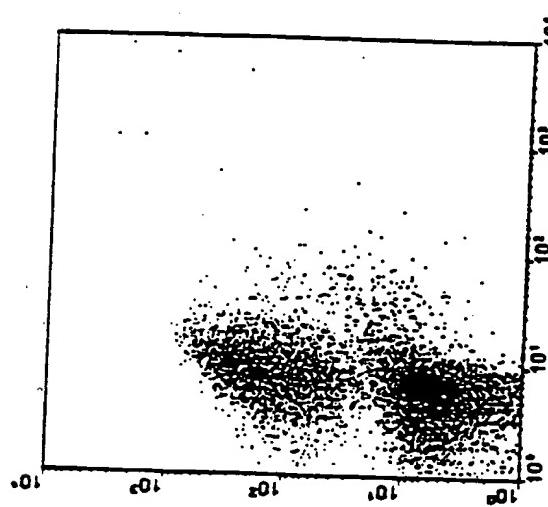
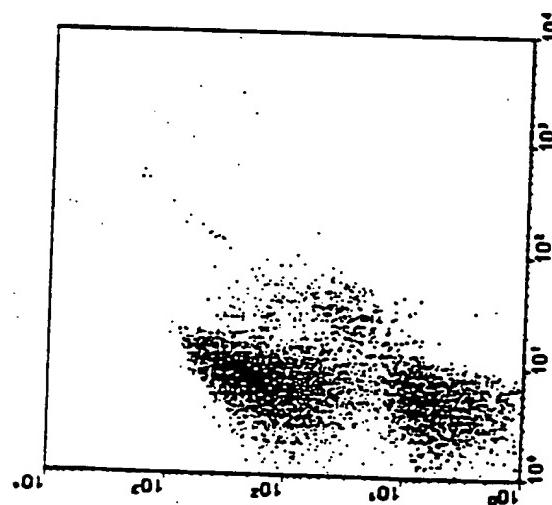


FIGURE 5.

A.

B.

C.



3G5 V β 7

FIGURE 6A.

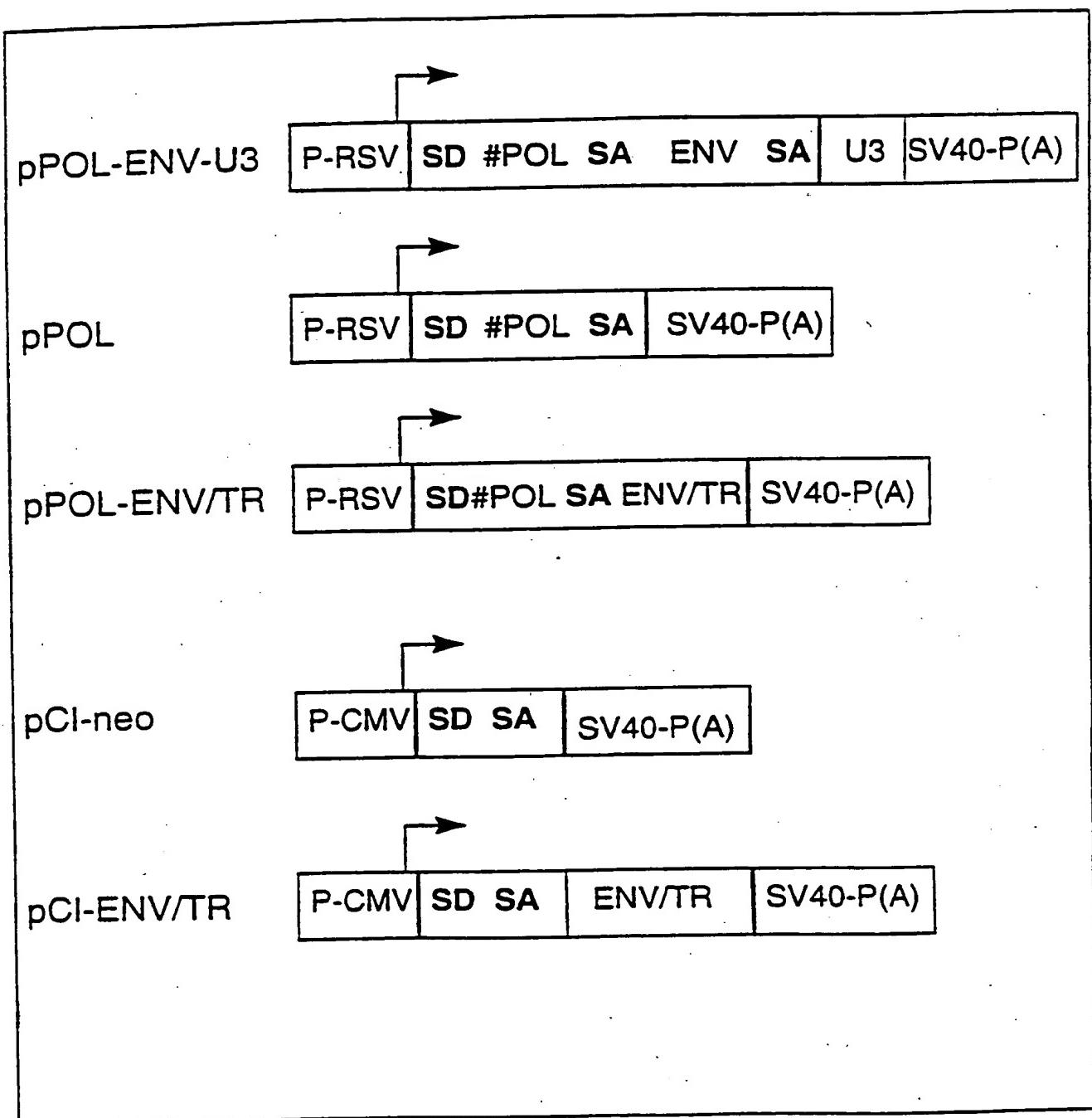


FIGURE 6B.

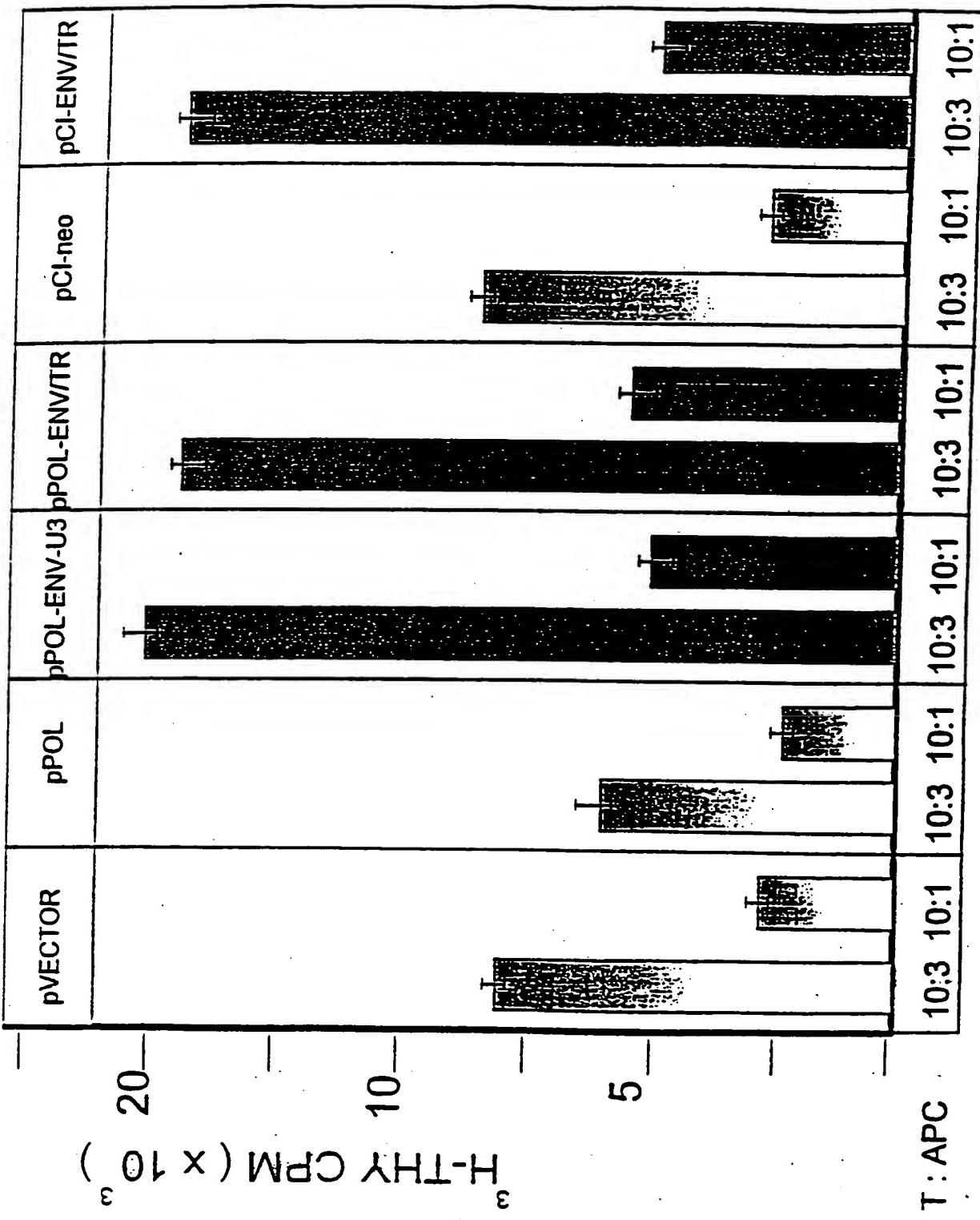


FIGURE 7A**iddmk1,2 22-5'ltr**

CATCTCCCTCAGGAGAAACACCCACGAATGATCAATAAAACTAAGGGGACTCAGAGGCTGGT
GGGATCCTCCATATGCTGAACGTTGGTCCCAGGGCCCCCTTATTCTTTCTCTATACTTTGT
CTCTGTGTCTTTCTTTCCAAGTCTTCATTGCACCTTACGAGAAACATCTCCATCAT
GGTTGTTGGATGGGGCAA

FIGURE 7B

iddmk1,2 22-3'ltr

CTGCAGGTGTACCCAACAGCTCCGAAGAGACAGTGACATCGAGAACGGGCCATGATGACGATG
 GCGGTTTGTGAAAAGAAAAGGGGAAATGTGGGAAAGCAAGAGAGATGAGATTGTTACT
 GTGTCGTATAGAAAGAAGTAGACATAGGAGACTCCATTGTTCTGTACTAAGAAAAATTCT
 TCTGCCTTGAGATGCTGTTAATCTATGACCTAACCCCCAACCCCGTGCCTCTGAAACATGTG
 CCGTGTCAAActCAGGTTAAATGGATTAAGGGTGGTGCAAGATGTGCTTGTAAACAGATG
 CTTGAAGGCAGCATGCTCATTAAGAGTCATCACCACTCCCTAATCTCAAGTACCCAGGGACAC
 AAACACTGCGAAAGGCCCGCAGGGACCTCTGCCTAGGAAAGCCAGGTATTGTCCAAGGTTCTC
 CCCATGTGATAGTCTGAAATATGGCCTCGTGGGAAGGGAAAGACCTGACCACCCCCAGACCA
 ACACCCGTAAAGGGTCTGTGCTGAGGAGGATTAGTATAAGAGGAAAGCATGCCTCTGCAGTT
 GAGAGAAGAGGAAGACATCTGTCCTGCCATCCCCTGGGCAATGGAATGTCTCAGTATAAA
 ACCCGATTGAACATTCATCTACTGAGATAGGGAAAAACTGCCTTAGGGCTGGAGGTGGGACA
 TGTGGCAGCAATACTGCTTGTAAAGCATTGAGATGTTATGTGTATGTATCTAAAAGCA
 CAGCACTTGATCCTTACCTTGTCTATGATGCAAACACCTTGTTCACGTGTTGTCTGCTGA
 CCCTCTCCCCACTATTGTCTTGTGACCCCTGACACATCTCCCTCAGGAGAAACACCCAcgaatg
 atcaataaaatactaaggggactcagaggctggtgggatccatcatatgctgaacgttggttcc
 cggggcccccttattttctctataactttgtctgtgtctttttccaagtcttct
 tcatttgcacccatcgagaaacatctccatcatgggttgtggatggggcaa

FIGURE 7C

iddmk1,2 22-env

ATGGTAACACCAAGTCACATGGATGGATAATCCTATAGAAGTATATGTTAATGATAGTGTATGG
 GTACCTGGCCCCACAGATGATCGCTGCCCTGCCAAACCTGAGGAAGAAGGGATGATGATAAAT
 ATTTCCATTGGGTATCATTATCCTCTATTGCCCTAGGGAGAGCACCAGGATGTTAATGCCT
 GCAGTCCAAATTGGTGGTAGAAGTACCTACTGTCAGTCCTAACAGTAGATTCACTTATCAC
 ATGGTAAGCGGGATGTCACTCAGGCCACGGTAAATTATTACAAGACTTTCTTATCAAAGA
 TCATTAAAATTAGACCTAAAGGGAAAATTGCCCAAGGAATTCTAAAGGATCAAAGAAT
 ACAGAAGTTTAGTTGGGAAGAATGTGTGGCCAATAGTGTGGTGATATTACAAAACAATGAA
 TTCGGAACATTATAGATTAGGCACCTCGAGGTCAATTCTACCACAATTGCTCAGGACAAACT
 CAGTCGTGTCCAAGTGCACAAGTGAGTCAGCTGTCGATAGCGACTAACAGAAAGTCTAGAC
 AACACATAAGCATAAAAAATTACAGTCTTCTACCTTTGGGAATGGGAAGAAAAAGGAATCTCT
 ACCCCAAAGACCAAAAATAATAAGTCCTGTTCTGGTCTGAAACATCCAGAATTGTGGAGGCTT
 ACTGTGGCCTCACACCACATTAGAATTGGTCTGAAATCAAACATTAGAAACAAGATATCGT
 AAGCCATTTTACTATCGACCTAAATTCCATTCTAACGGTCTTTACAAAGTTGCTAAAG
 CCCCTTATATGCTAGTTGTAGGAAATATAGTTAAACCAAGCCTCCAAACTATAACCTGT
 GAAAATTGTAGATTGTTACTTGCAATTGCAACTTTAATTGGCAGCACCGTATTCTGCTG
 GTGAGAGCAAGAGAAGGCATGTGGATCCCTGTGTCACGGACCGACCGTGGGAGGCCTGCCA
 TCCATCCATATTGACTGAAATATTAAAAGGCCTTTAAATAGATCCAAAAGATTCAATT
 ACTTTAATTGCAGTGATTATGGGATTAATTGCACTGTCAGTCACAGCTACGGCTGCTGGCAGGGTT
 GCATTGCACTCTCTGTTAGTCAGTAAACTTTGTTAATTATTGGCAAAAGAATTCTACAAGA
 TTGTGGAATTACAATCTAGTATTGATCAAAATTGGCAAGTCAAATTAAATGATCTTAGACAA
 ACTGTCAATTGGATGGAGACAGGCTGACTTAGAACATCATTCAGTTACAGTGTGACTGG
 AATAACGTCAAGATTTGTATTACACCCAAATTATAATGAGTCTGAGCATCACTGGACATG
 GTTAGACGCCATCTACAGGGAAGAGAAGATAATCTCACTTAGACATTCCAAATTAAAAGAA
 CAAATTTCGAAGCATCAAAAGCCATTAAATTGGTGCCAGGAACGTGAGGCAATTGCAAGGA
 GTTGCTGATGGCCTCGCAAATCTAACCCCTGTCAGTGGATTAAGACATCAGAAGTACTATG
 ATTATAAATCTCATATTAAATCGTTGTGCTGCTGTTGTTAGTCTGCAGGTGTAC
 CCAACAGCTCCGAAAAAAACAGTGACATCGAGAACGGGCCATGAATGACA
 AAAGGCCTTTGTT
 TTCCAAAAAAAAGGGGAAATTGGGAAACCAAAAAATGAAAATGTT

09490700 - 09490700

FIGURE 7D

ACA TTT GAA CTT CTA CAA TGA ACC CAT CAG AGA TGC AAA GAA AAG CGC CTC CAC CGA 57
 GAT GGT AAC ACC AGT CAC ATG GAT GGA TAA TCC TAT AGA AGT ATA TGT TAA TGA TAG 114
 M V T P V T W M D N P I E V Y V N D S 19
 TGT ATG GGT ACC TCG CCC CAC AGA TGA TCG CTG CCC TGC CAA ACC TGA CGA AGA AGG 171
 Y W V P G P T D D R C P A K P E E E G 38
 GAT GAT GAT AAA TAT TTC CAT TCG GTA TCA TTA TCC TCC TAT TTG CCT AGG GAG AGC 228
 M M I N T S G Y H Y P P I C L G R A 57
 ACC AGG ATG TTT AAT GCC TGC AGT CCA AAA TTG GTT GGT AGA AGT ACC TAC TGT CAG 285
 P G C L M P A V Q N W L V E V P T V S 76
 TCC TAA CAG TAG ATT CAC TTA TCA CAT CGT AAG CGG GAT GTC ACT CAG GCC AGG GGT 342
 P N S R F T Y H M V S G M S L R P R V 95
 AAA TTA TTT ACA AGA CTT TTC TTA TCA AAG ATC ATT AAA ATT TAG ACC TAA AGG GAA 399
 N Y L Q D F S Y Q R S L K F R P K G K 114
 AAC TTG CCC CAA CGA AAT TCC TAA AGG ATC AAA GAA TAC AGA AGT TTT AGT TTG GGA 456
 T C P K E I P K G S K N T E V L V W E 133
 AGA ATG TGT GGC CAA TAG TGT GGT GAT ATT ACA AAA CAA TGA ATT CGG AAC TAT TAT 513
 E C V A N S V V I L Q N N E F G T I I 152
 AGA TTA G 520
 D 153

FIGURE 7E**x1,2-22-env/fs**

ACATTGAAGTTCTACAATGAACCCATCAGAGATGCAAAGAAAAGCGCCTCCACGGAGATGGTA
ACACCAAGTCACATGGATGGATAATCCTATAGAAGTATATGTTAATGATAGTGTATGGGTACCTG
GCCCCACAGATGATCGCTGCCCTGCCAACCTGAGGAAGAAGGGATGATGATAAAATATTCAT
TGGGTATCATTATCCTCCTATTGCCTAGGGAGAGCACCAAGGATGTTAATGCCTGCAGTCCAA
AATTGGTTGGTAGAAGTACCTACTGTCAGTCCTAACAGTAGATTCACTTATCACATGGTAAGCG
GGATGTCACTCAGGCCACGGTAAATTATTTACAAGACTTTCTTATCAAAGATCATTAAAATT
TAGACCTAAAGGGAAAATTGCCCCAAGGAATTCTAAAGGATCAAAGAATACAGAAGTTTA
GTTTGGGAAGAATGTGTGGCCAATAGTGTGGTGATATTACAAAACAATGAATTGGAACTATT
TAGATTAGGCACCTCGAGGTCAATTCTACCACAATTGCTCAGGACAAACTCAGTCGTGTCAG
TGCACAAGTGAATCCAGCTGTCGATAG

FIGURE 7F

iddmk1,2 22-ENV

MVTPVTWMDNPIEVYVNDSVWVPGPTDDRCPAKPEEGMMINISIGYHYPPICLGRA
PGCLMPAVQNWLVVEVPTVSPNSRFTYHMVSGMSLRPRVNYLQDFSYQRSLKFRPKG
KTCPKEIPKGSKNTTEVLWEECVANSVILQNNEFGTIIDZAPRGQFYHNCSGQTQSC
PSAQVSPA VDSLTESLDKHKKKLQSFYLWEWEEKGISTPRPKIISPVSGPEHPEL
WRLTVASHHIRIWSGNQTLETRYRKPFTIDLNSILTVPQSCLKPPYMLVVGNIVIKP
ASQTITCENCRLFTCIDSTFNWQHRILLVRAREGMWIPVSTDPRWEASPSIHILTEILK
GVLNRSKRFIFTLIAVIMGLIAVTATAAVAGVALHSSVQSVNFVNYWQKNSTRlwNS
QSSIDQKLASQINDLRQTVIWMGDRLDLEHHFQLQCDWNTSDFCITPQIYNESEH
WDMVRRHLQGREDNLTLDISKLKEQIFEASKAHLNLVPGTEAIAGVADGLANLPVT
WIKTIRSTMIIINLILIVVCLFCLLLVCRCTPTAPKKTVTSGHE

FIGURE 7G

63

ACATTTGAAGTTCTACAATGAACCCATCAGAGATGCAAAGAAAAGCGCTCCACGGAGATGGT

	2
M	V

AACACCAGTCACATGGATGGATAATCCTATAGAAGTATATGTTAATGATAGTGTATGGGTACC
 T P V T W M D N P I E V Y V N D S V W V P
 23
 TGGCCCCACAGATGATCGCTGCCCTGCCAACCTGAGGAAGAAGGGATGATGATAAAATATTTC
 G P T D D R C P A K P E E E G M M I N I S
 44
 CATTGGGTATCATTATCCTCCTATTGCCTAGGGAGAGCACCAGGATGTTAATGCCTGCAGT
 I G Y H Y P P I C L G R A P G C L M P A V
 65
 CCAAAATTGGTTGGTAGAAGTACCTACTGTCAGTCCTAACAGTAGATTCACTTATCACATGGT
 Q N W L V E V P T V S P N S R F T Y H M V
 86
 AAGCGGGATGTCACTCAGGCCACGGTAAATTATTTACAAGACTTTCTTATCAAAGATCATT
 S G M S L R P R V N Y L Q D F S Y Q R S L
 107
 AAAATTAGACCTAAAGGGAAAATTGCCTAACAGGAATTCTAAAGGATCAAAGAATACAGA
 K F R P K G K T C P K E I P K G S K N T E
 128
 AGTTTTAGTTGGAAAGAATGTGTGCCAATAGTGTGGTGATATTACAAAACAATGAATT CGG
 V L V W E E C V A N S V V I L O N N E F G
 149
 AACTATTATAGATTAGGCACCTCGAGGTCAATTCTACCACAATTGCTCAGGACAAACTCA GT
 T I I D L G T S R S I L P O L L R T N S V
 170
 CGTGTCCAAGTGCACAAGT GAGTCCAGCTGTGGATAG
 601
 V S K C T S E S S S C R *
 181

FIGURE 7H

iddmk1,2 22-POL

FTIPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVRDKFSDC
YIIHYFDDILCAAETDKLIDCYTFLPAEVANAGLAIASDKIQTSTPFHYLGMQIENRKIKPQ
KIEIRKDTLKLNDFQKLIGDINWIRPTLGIPTYAMSNLFSILRGDSLNSKRMLT

FIGURE 8A**x1,2-1**

gtaaaatgacaccatatgatgcactgccaccctttcactgtttcacccctgaacatctgcttttac
atctaagtgattgtacccaataaaatagtgtggagaccagagactctgagcctttgcagecctcca
tttgcaactggccccctggctccacctttatgaactcttaacctgtcttttcattcctt
gtcaccattggactttgggtaccctacgggtggtgtgaggctgtcaccgcacattaa

FIGURE 8B**k1,2-10**

gttagttaatctataatctatagagacaatgcttatcactggcttgcgtcaataaaatgtg
ggtaaatctctgttcaagactctcagcttgaagctgtgagacccctgattttccactccacac
ctctatatttctgtgtgtgttttaatttcctccagtgttgctgggttagggtctcctcgacg
agctgtcgtgc

FIGURE 8C**x1,2-16**

aactcagctgctgcacagtggtcgagcctccagagctcatgccattgcagtggtcagagcctg
gccctcctcttgcataagaacctggattcaatctgttaagggtggaaagtgcagcagcagaga
actctggccttgcagagagtcctgtttccacttcacttccctttcaccaaataaaaaccctg
ctttcaactcatgcataaaattgtctgtgagcctacatccccatggccatgggacaagaacacc
atcttagctgagctaggaaaagtccctgca

FIGURE 8D**k1,2-17**

gatgtgaccactgtgacctacactggagatggctcacacttccttaccctccctgct
gtaccaataaataaacagcacagcctgacattcgagccattaccggctttgtgacttggtgg
tagtggtatcccctagggcccagctgtctttctttatctttgtcttgtctttatttc
tatgagtctctcgctccgcacatgggagaaaaaccatagaccctgttagggctg

FIGURE 8E

x1,2-26

ctcacaaaaataataaaagttctgttggccattttcagatcttcattctttgtgaggatcc
ccctgtacatgtaaaaatgtataaaaacttgtatccttctcttaatctgtctgcata
atatcattcctagaccaggcagttagagatgggtggaggtgagccgtacattcccta

FIGURE 8F**x1,2-27**

cagagaactccagccagctgtgatggagcctcaggaagttcacagttgcägcaggaaggagcctggc
tgctccctttccctgtgtggAACCTGGGATTAGAACAGGCTGGCAGGAAGTGTCTTAGCAGGGACTCT
GGCCTACTCACACTCCTGTTCCCCCCTTCTTCCTTTCACTCAATAAAGCCCTGTCTTACTCAC
CATTCAAATTGTCTGTGAGCCTGAATTTATGGCTGTGGGACAAAGAACCCATTAGCTGAAC
TAAGGAAAATTCTGCAAA

FIGURE 8G**x1,2-4**

gtgattgtctgctgaccctctccccacaattgtcttgtgacccctgacacatccccctttcga
gaaacacccgcggatgatcaataaatattaaggaaactcagaggctggcaggatcctccatat
gctgaacgctgggtgccccgggtccccttcttcttctataactttgtctgtgtctttt
tctttccaaatctctcgccccacacccatcgagaaacacccacaggtgtccgggcaacccaa
cgccacataaca

